

## PCT REQUEST

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| <b>0</b>     | <b>For receiving Office use only</b>   |  |
| <b>0-1</b>   | International Application No.  |  |
| <b>0-2</b>   | International Filing Date  |  |
| <b>0-3</b>   | Name of receiving Office and "PCT International Application"   |  |
| <b>0-4</b>   | <b>Form PCT/RO/101 PCT Request</b>   |  |
| <b>0-4-1</b> | Prepared Using   | <b>PCT-SAFE<br/>Version 3.50 (Build 0002.162)</b>  |
| <b>0-5</b>   | <b>Petition</b><br>The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty |  |
| <b>0-6</b>   | <b>Receiving Office (specified by the applicant)</b>   | <b>Korean Intellectual Property Office (RO/KR)</b>   |
| <b>0-7</b>   | <b>Applicant's or agent's file reference</b>   | <b>PH-21689-PCT</b>  |
| <b>I</b>     | <b>Title of Invention</b>  | <b>ROTAXANE COMPOUND, ROTAXANE-BONDED SOLID SUBSTRATE, AND BIOCHIP USING THE SAME</b>          |
| <b>II</b>    | <b>Applicant</b>   |  |
| <b>II-1</b>  | This person is   | <b>applicant only</b>  |
| <b>II-2</b>  | Applicant for  | <b>all designated States except US</b>   |
| <b>II-4</b>  | Name   | <b>POSTECH FOUNDATION</b>  |
| <b>II-5</b>  | Address  | <b>San 31 Hyoja-dong, Nam-gu<br/>Pohang-city, Kyungsangbuk-do790-784<br/>Republic of Korea</b> |
| <b>II-6</b>  | State of nationality   | <b>KR</b>  |
| <b>II-7</b>  | State of residence   | <b>KR</b>  |
| <b>II-8</b>  | Telephone No.  | <b>82-54-279-2571</b>  |
| <b>II-9</b>  | Facsimile No.  | <b>82-54-279-3639</b>  |
| <b>II-11</b> | Applicant's registration No. with the Office   | <b>2-1999-900096-8</b>   |

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| <b>III-1</b> | <b>Applicant and/or inventor</b> |  |
| III-1-1      | This person is                   | applicant and inventor   |
| III-1-2      | Applicant for                    | US only  |
| III-1-4      | Name (LAST, First)               | KIM, Kimoon  |
| III-1-5      | Address                          | Dept. of Chemical Engineering, Pohang<br>University of Science and Technology<br>San 31 Hyoja-dong, Nam-gu<br>Pohang-city, Kyungsangbuk-do790-784<br>Republic of Korea   |
| III-1-6      | State of nationality             | KR   |
| III-1-7      | State of residence               | KR   |
| <b>III-2</b> | <b>Applicant and/or inventor</b> |  |
| III-2-1      | This person is                   | applicant and inventor   |
| III-2-2      | Applicant for                    | US only  |
| III-2-4      | Name (LAST, First)               | KANG, Jin-Koo  |
| III-2-5      | Address                          | Dept. of Chemical Engineering, Pohang<br>University of Science and Technology<br>San 31 Hyoja-dong, Nam-gu<br>Pohang-city, Kyungsangbuk-do790-784<br>Republic of Korea   |
| III-2-6      | State of nationality             | KR   |
| III-2-7      | State of residence               | KR   |
| <b>III-3</b> | <b>Applicant and/or inventor</b> |  |
| III-3-1      | This person is                   | applicant and inventor   |
| III-3-2      | Applicant for                    | US only  |
| III-3-4      | Name (LAST, First)               | JEON, Woo-Seong  |
| III-3-5      | Address                          | Center for Smart Supramolecules, Pohang<br>University of Science and Technology<br>San 31 Hyoja-dong, Nam-gu<br>Pohang-city, Kyungsangbuk-do790-784<br>Republic of Korea |
| III-3-6      | State of nationality             | KR   |
| III-3-7      | State of residence               | KR   |

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| <b>III-4</b> | <b>Applicant and/or inventor</b>   |  |
| III-4-1      | This person is   | applicant and inventor   |
| III-4-2      | Applicant for  | US only  |
| III-4-4      | Name (LAST, First)   | NOH, Miran   |
| III-4-5      | Address  | Dept. of Chemical Engineering, Pohang<br>University of Science and Technology<br>San 31 Hyoja-dong, Nam-gu<br>Pohang-city, Kyungsangbuk-do790-784<br>Republic of Korea |
| III-4-6      | State of nationality   | KR   |
| III-4-7      | State of residence   | KR   |
| <b>III-5</b> | <b>Applicant and/or inventor</b>   |  |
| III-5-1      | This person is   | applicant and inventor   |
| III-5-2      | Applicant for  | US only  |
| III-5-4      | Name (LAST, First)   | KIM, Dongwoo   |
| III-5-5      | Address  | Dept. of Chemical Engineering, Pohang<br>University of Science and Technology<br>San 31 Hyoja-dong, Nam-gu<br>Pohang-city, Kyungsangbuk-do790-784<br>Republic of Korea |
| III-5-6      | State of nationality   | KR   |
| III-5-7      | State of residence   | KR   |
| <b>IV-1</b>  | <b>Agent or common representative; or<br/>address for correspondence</b>   |  |
|              | The person identified below is hereby/<br>has been appointed to act on behalf of<br>the applicant(s) before the competent<br>International Authorities as: | agent  |
| IV-1-1       | Name (LAST, First)   | LEE, Young-Pil   |
| IV-1-2       | Address  | The Cheonghwa Bldg. 1571-18 Seocho-dong,<br>Seocho-gu<br>Seoul137-874<br>Republic of Korea   |
| IV-1-3       | Telephone No.  | 82-2-588-8585  |
| IV-1-4       | Facsimile No.  | 82-2-588-8586  |
| IV-1-5       | e-mail   | iplaw@yplee.co.kr  |
| IV-1-6       | Agent's registration No.   | 9-1998-000334-6  |

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| <b>V</b>      | <b>DESIGNATIONS</b>   |   |                             |
| <b>V-1</b>    | The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.  |   |                             |
| <b>V-2</b>    | Item V-2 may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. As to the consequences of such national law provisions in these and certain other States, see Designations in PCT-SAFE Help. | <b>KR</b>   |                             |
| <b>VI-1</b>   | Priority claim of earlier national application  |   |                             |
| <b>VI-1-1</b> | Filing date   | <b>05 July 2003 (05.07.2003)</b>                    |                             |
| <b>VI-1-2</b> | Number  | <b>10-2003-0045522</b>                              |                             |
| <b>VI-1-3</b> | Country   | <b>KR</b>   |                             |
| <b>VII-1</b>  | International Searching Authority Chosen  | <b>Korean Intellectual Property Office (ISA/KR)</b> |                             |
| <b>VIII</b>   | <b>Declarations</b>   | Number of declarations                              |                             |
| <b>VIII-1</b> | Declaration as to the identity of the inventor  | -   |                             |
| <b>VIII-2</b> | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent  | -   |                             |
| <b>VIII-3</b> | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application  | -   |                             |
| <b>VIII-4</b> | Declaration of inventorship (only for the purposes of the designation of the United States of America)  | -   |                             |
| <b>VIII-5</b> | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty  | -   |                             |
| <b>IX</b>     | <b>Check list</b>   | number of sheets                                    | electronic file(s) attached |
| <b>IX-1</b>   | Request (including declaration sheets)  | <b>5</b>  | <b>✓</b>                    |
| <b>IX-2</b>   | Description   | <b>16</b>   | <b>✓</b>                    |
| <b>IX-3</b>   | Claims  | <b>4</b>  | <b>✓</b>                    |
| <b>IX-4</b>   | Abstract  | <b>1</b>  | <b>✓</b>                    |
| <b>IX-5</b>   | Drawings  | <b>1</b>  | <b>✓</b>                    |
| <b>IX-7</b>   | <b>TOTAL</b>  | <b>27</b>   |                             |

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|       | Accompanying Items   | paper document(s) attached | electronic file(s) attached |
|-------|--|----------------------------|-----------------------------|
| IX-8  | Fee calculation sheet                                      | -                          | ✓                           |
| IX-17 | PCT-SAFE physical media                                    | -                          | -                           |
| IX-19 | Figure of the drawings which should accompany the abstract | 1                          |                             |
| IX-20 | Language of filing of the International application        | Korean                     |                             |
| X-1   | Signature of applicant, agent or common representative     | (PKCS7 Digital Signature)  |                             |
| X-1-1 | Name (LAST, First)   | LEE, Young-Pil             |                             |
| X-1-2 | Name of signatory  |                            |                             |
| X-1-3 | Capacity   |                            |                             |

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|--------|---|--------|
| 10-1   | Date of actual receipt of the purported international application   |        |
| 10-2   | Drawings:   |        |
| 10-2-1 | Received  |        |
| 10-2-2 | Not received  |        |
| 10-3   | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application |        |
| 10-4   | Date of timely receipt of the required corrections under PCT Article 11(2)  |        |
| 10-5   | International Searching Authority   | ISA/KR |
| 10-6   | Transmittal of search copy delayed until search fee is paid   |        |

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| 11-1 | Date of receipt of the record copy by the International Bureau |  |
|------|--|--|